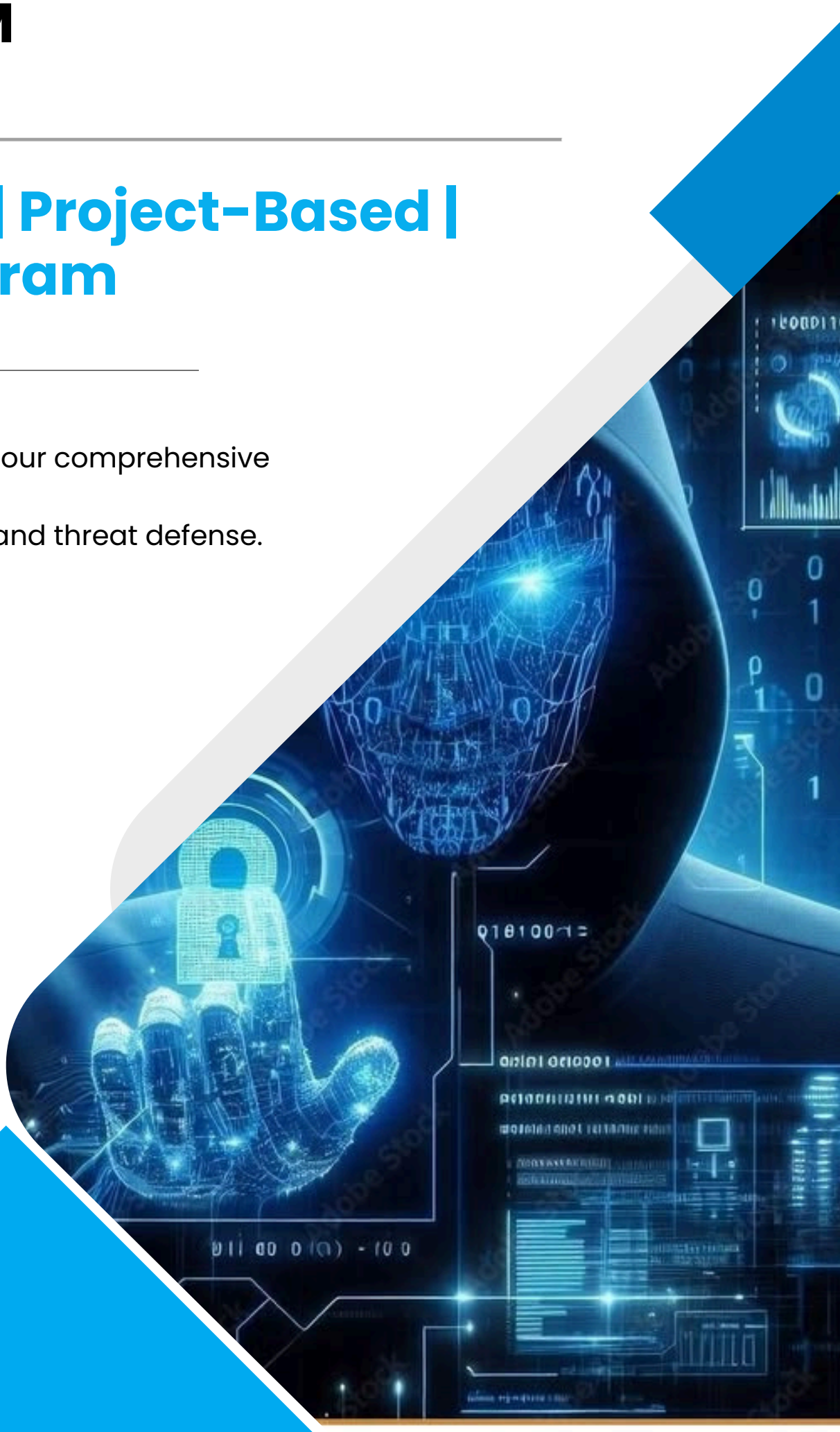
QUANTUM-AI
THE SCHOOL OF DATA AND AI

CYBER SECURITY WITH AI PROFESSIONAL TRAINING PROGRAM

Industry-Oriented | Project-Based | Future-Ready Program

Learn to protect systems and data with our comprehensive Cybersecurity Course.
Gain hands-on skills in ethical hacking and threat defense.



WHY QUANTUMAI?

QuantumAI delivers a practical,job-focused curriculum with hands-on projects using real datasets.Led by industry experts, the program provides exposure to modern tools and cloud technologies,making it suitable for both beginners and professionals looking to grow or transition into AI with Cybersecurity.

ABOUT THE COURSE

Cyber Security with AI is an advanced, future-focused program that combines core cybersecurity principles with Artificial Intelligence and Machine Learning techniques to detect, prevent, and respond to cyber threats intelligently.

This professional training program is designed to equip learners with practical security skills along with AI-driven threat detection, automation, and security analytics knowledge required in modern security operations.

The course emphasizes real-time labs, live security simulations, AI-based threat analysis, and project-based learning to make students industry-ready.



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COURSE MODULES

MODULE 1: Cyber Security Fundamentals

- Fundamentals of Cyber Security Types of Cyber
- Attacks CIA Triad (Confidentiality, Integrity,
- Availability) Networking Basics (OSI, TCP/IP) Security
- Policies & Compliance Basics

MODULE 2: Networking & System Security

- IP Addressing & Subnetting
- Firewalls & IDS/IPS Windows
- Security Fundamentals Linux
- Security Basics Access Control &
- Authentication

MODULE 3: Ethical Hacking & Vulnerability Assessment

- Footprinting & Reconnaissance Network
- Scanning Basics Vulnerability
- Assessment Techniques Introduction to
- Penetration Testing Web Application
- Security Overview

MODULE 4: Introduction to Artificial Intelligence

- Basics of Artificial Intelligence
- Introduction to Machine Learning
- Supervised vs Unsupervised Learning AI in Cyber Security Overview

MODULE 5: AI for Threat Detection

- Malware Detection using ML Concepts
- Intrusion Detection using AI Models Anomaly
- Detection Basics Behavioral Analysis
- Techniques Security Log Analysis with AI

MODULE 6: Automation & Security Analytics

- Security Automation Concepts SIEM
- Fundamentals Log Monitoring &
- Analysis Risk Scoring Models
- Predictive Threat Analysis

MODULE 7: Cloud & Network Security with AI

- Cloud Security Basics AI-based Threat
- Monitoring Network Traffic Analysis Incident
- Detection & Response Automation

MODULE 8: Incident Response & Risk Management

- Incident Handling Process Digital
- Forensics Basics Risk Assessment
- Techniques Business Continuity
- Planning



MODULE 9: Live Projects

- AI-Based Intrusion Detection Mini Project
- Vulnerability Assessment Project Security
- Log Analysis Project Threat Monitoring
- Simulation

MODULE 10: Career Preparation & Certification Guidance

- Resume Preparation for Cyber Security & AI Roles
- Interview Preparation Industry Certification Guidance
- Mock Interviews



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